CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

No. : CTCE/BBMP/KMAN/PMC/DD/2021/14 Date: 15.03.2021

To,
Executive Engineer,

Dasarahalli Division,

Bruhat Bangalore Mahanagara Palike,

Bangalore.

CERTIFICATE

Reference : EE/DD/W.O/115/2020-21 Date:09.10.2020

Name of work: Annual Maintenance and Re-asphalting of Shettyhalli Railway Gate to Abbigere Main Road and Surrounding Area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.

This is to certified that the 1st and Part Bill of the above said work has been executed satisfactorily and the quantities of work done has also been certified.

Thanking you,

With Regards,

For Civil-Tech Consultants and Engineers

15/3/2021

Authorized Signature

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
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JAS-ANZ BSCIC ISO 9001 REGISTERED

No. : CTCE/BBMP/KMAN/PMC/DD/2021/14 Date:15.03.2021

To,
Executive Engineer,
Dasarahalli Division,
Bruhat Bangalore Mahanagara Palike,
Bangalore.

COMPLIANCE REPORT

Dear Sir,

Reference : EE/DD/W.O/115/2020-21 Date:09.10.2020

Name of work: Annual Maintenance and Re-asphalting of Shettyhalli Railway Gate to Abbigere Main Road and Surrounding Area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.

With respect to the above subject & name of the work, we have supervised the work and the quantity and quality of below mentioned items of the work was found to be completed satisfactorily for the **1st and Part bill.**

Sl. No	Description of Work	Unit	Qty
1	KSRRB 300-1.Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 as per Engineer In Charge.	Cum	167.09
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. as per Engineer In Charge	Cum	24.84
3	Providing and laying Plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300kgs with 20mm down size granite metal coarse aggregates at 0.69um and fine aggregates at 0.43cum machine mixed, well compaced for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500,1700,2200 including cost of materials, labour, HOM complete as per specifications. do-wall & bottom thickness 15cms as per Engineer In charge.	Cum	54.74
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work TMT bars Fe 500 including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. as per Engineer In Charge	MT	1.74

Civil-Tech Consultants & Engineers Bangalore

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Sl. No	Description of Work	Unit	Qty
5	providing and fixing Precast reinforced cement concrete covering slabs of 10cm thick made out of M25 with OPC cement @340kgs per cum, 20mm and downsize graded granite metal course aggregates @ 0.70cum and fine aggregates @ 0.74cum with super plasticizers, machine mixed, including providing and removing centering, shuttering, strutting propping etc., for edges of slab with TMT steel (Fe 500) cost & reinforcement charges, including finishing as required with cost of reinforcement etc, complete as directed by Engineer in Charge of the Work.	Sqm	118.80
8	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3 as per Engineer In Charge	Sqm	3631.50
9	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. as per Engineer In Charge	Cum	2905.20
10	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 as per Engineer In Charge	Sqm	3631.50
11	0400 Stone dust/ Grit 4.75mm to 0.075mm as per Engineer In Charge	Cum	273.49
12	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. as per Engineer In Charge.	Cum	344.97
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 as per Engineer In Charge	Cum	381.93
14	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision as per Engineer In Charge	Sqm	2582.88

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Sl. No	Description of Work	Unit	Qty
15	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Clause 501 of MORTH V revision as per Engineer In Charge	Sqm	8187.90
16	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision as per Engineer In Charge	Sqm	8187.45
17	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision - do -using 120 TPH capacity Asphalt batch mix plant with sensor paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen as per Engineer In Charge	Cum	409.37
18	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.-do-using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) as per Engineer In Charge	Cum	327.50
19	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 as per Engineer In Charge	Sqm	278.91

Civil-Tech Consultants & Engineers Bangalore

Thanking you,

With Regards,

For Civil-Tech Consultants and Engineers

15/3/2021

Authorized Signature

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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